<u>CLAIMS</u>

What is claimed is:

1	1. A method of automatically populating a contact database in a mobile
2	communication device configured to communicate voice and data over a
3	wireless network, the method comprising:
4	receiving a telephone number associated with a voice call involving the
5	mobile communication device; and
6	when a data connection is established between the mobile communication
7	device and a remote processing system via the wireless network, then
8	automatically
9	obtaining data associated with the telephone number via the
0	wireless network, and
1	storing the data in the contact database in association with the
2	telephone number.

- 1 2. A method as recited in claim 1, wherein said receiving the telephone number
- 2 comprises receiving Caller-ID information including the telephone number and
- 3 associated with an incoming call to the mobile communication device.
- 1 3. A method as recited in claim 1, wherein said receiving the telephone number
- 2 comprises receiving a telephone number associated with an outgoing call being
- 3 placed by a user of the mobile communication device.

- 1 4. A method as recited in claim 1, further comprising attempting to locate the
- 2 data associated with the telephone number in the contact database, wherein said
- 3 obtaining data associated with the telephone number via the wireless network is
- 4 performed only after failing to locate the in the contact database.
- 1 5. A method as recited in claim 1, wherein the mobile communication device
- 2 comprises a browser to allow a user of the mobile communication device to
- 3 navigate hypermedia information, and wherein said obtaining the data
- 4 associated with the telephone number via the wireless network is done
- 5 automatically by the browser.
- 1 6. A method as recited in claim 1, wherein said obtaining the data associated
- 2 with the telephone number comprises automatically requesting the data
- 3 associated with the telephone number from a remote server via the wireless
- 4 network when the data connection is established.
- 7. A method as recited in claim 1, wherein the obtained data associated with the
- 2 telephone number is contained in a vCard.
- 8. A method as recited in claim 1, wherein the obtained data associated with the
- 2 telephone number comprises name or address information associated with the
- 3 telephone number.

- 9. A method as recited in claim 1, wherein the obtained data associated with the
- 2 telephone number comprises ring tone data for use to generate a ring tone
- 3 indicating the incoming voice call.
- 1 10. A method of operating a browser in a mobile communication device
- 2 configured to communicate voice and data over a wireless network, the browser
- 3 to enable a user of the mobile communication device to access and navigate
- 4 hypermedia data, the method comprising:
- 5 receiving a telephone number at the browser in response to the mobile
- 6 communication device receiving or initiating a voice call over the wireless
- 7 network;
- 8 in response to receiving the telephone number, automatically determining
- 9 whether data of a predetermined type associated with the telephone number is
- stored in a contact database in the mobile communication device;
- if the data associated with the telephone number is not stored in the
- 12 contact database, then
- waiting to establish a data connection with a remote server via the
- 14 wireless network, and when the data connection is established,
- automatically requesting the data associated with the telephone
- 16 number from the remote server via the wireless network,
- 17 receiving the data associated with the telephone number via the
- 18 wireless network, and

- storing the data associated with the telephone number in the contact database in association with the telephone number.
- 1 11. A method as recited in claim 10, wherein said receiving the telephone
- 2 number comprises receiving Caller-ID information including the telephone
- 3 number and associated with an incoming call to the mobile communication
- 4 device.
- 1 12. A method as recited in claim 10, wherein said receiving the telephone
- 2 number comprises receiving a telephone number associated with an outgoing
- 3 call being placed by a user of the mobile communication device.
- 1 13. A method as recited in claim 10, wherein the received data associated with
- 2 the telephone number is contained in a vCard.
- 1 14. A method as recited in claim 10, wherein the received data associated with
- 2 the telephone number comprises name or address information associated with
- 3 the telephone number.
- 1 15. A method as recited in claim 10, wherein the received data associated with
- 2 the telephone number comprises ring tone data for use to generate a ring tone
- 3 indicating the incoming voice call.

- 16. A machine-readable program storage medium storing instructions for 1 2 execution in a mobile communication device configured to communicate voice 3 and data over a wireless network, to cause the mobile communication device to 4 execute a process of automatically populating a contact database in the mobile 5 communication device, the process comprising: 6 receiving a telephone number associated with a voice call involving the 7 mobile communication device; and 8 when a data connection is established between the mobile communication 9 device and a remote processing system via the wireless network, then 10 automatically
- obtaining data associated with the telephone number via the wireless network, and
- storing the data in the contact database in association with the telephone number.
- 1 17. A machine-readable program storage medium as recited in claim 16, wherein
- 2 said receiving the telephone number comprises receiving Caller-ID information
- 3 including the telephone number and associated with an incoming call to the
- 4 mobile communication device.
- 1 18. A machine-readable program storage medium as recited in claim 16, wherein
- 2 said receiving the telephone number comprises receiving a telephone number

- 3 associated with an outgoing call being placed by a user of the mobile
- 4 communication device.
- 1 19. A machine-readable program storage medium as recited in claim 16, wherein
- 2 the process further comprises attempting to locate the data associated with the
- 3 telephone number in the contact database, wherein said obtaining data
- 4 associated with the telephone number via the wireless network is performed
- 5 only after failing to locate the in the contact database.
- 1 20. A machine-readable program storage medium as recited in claim 16, wherein
- 2 the instructions are part of a browser to allow a user of the mobile
- 3 communication device to navigate hypermedia information, and wherein said
- 4 obtaining the data associated with the telephone number via the wireless
- 5 network is done automatically by the browser.
- 1 21. A machine-readable program storage medium as recited in claim 16, wherein
- 2 said obtaining the data associated with the telephone number comprises
- 3 automatically requesting the data associated with the telephone number from a
- 4 remote server via the wireless network when the data connection is established.
- 1 22. A machine-readable program storage medium as recited in claim 16, wherein
- 2 the obtained data associated with the telephone number is contained in a vCard.

- 1 23. A machine-readable program storage medium as recited in claim 16, wherein
- 2 the obtained data associated with the telephone number comprises name or
- 3 address information associated with the telephone number.
- 1 24. A machine-readable program storage medium as recited in claim 16, wherein
- 2 the obtained data associated with the telephone number comprises ring tone data
- 3 for use to generate a ring tone indicating the incoming voice call.
- 1 25. A mobile communication device comprising:
- a telephony unit to communicate voice over a wireless network; and
- a browser to allow a user of the mobile communication device to browse
- 4 hypermedia information via the wireless network, the browser providing a
- 5 process of automatically populating a contact database in the mobile
- 6 communication device, the process comprising:
- 7 receiving from the telephony unit a telephone number associated
- 8 with a voice call involving the mobile communication device, and
- 9 when a data connection is established between the mobile
- 10 communication device and a remote processing system via the wireless network,
- 11 then automatically
- obtaining data associated with the telephone number via the
- 13 wireless network, and
- storing the data in the contact database in association with
- 15 the telephone number.

- 1 26. A mobile communication device as recited in claim 25, wherein said
- 2 receiving from the telephony unit the telephone number comprises receiving
- 3 Caller-ID information including the telephone number and associated with an
- 4 incoming call to the mobile communication device.
- 1 27. A mobile communication device as recited in claim 25, wherein said
- 2 receiving the telephone number comprises receiving from the telephony unit a
- 3 telephone number associated with an outgoing call being placed by a user of the
- 4 mobile communication device.
- 1 28. A mobile communication device as recited in claim 25, wherein the process
- 2 further comprises attempting to locate the data associated with the telephone
- 3 number in the contact database, wherein said obtaining data associated with the
- 4 telephone number via the wireless network is performed only after failing to
- 5 locate the in the contact database.
- 1 29. A mobile communication device as recited in claim 25, wherein the
- 2 instructions are part of a browser to allow a user of the mobile communication
- 3 device to navigate hypermedia information, and wherein said obtaining the data
- 4 associated with the telephone number via the wireless network is done
- 5 automatically by the browser.

- 1 30. A mobile communication device as recited in claim 25, wherein said
- 2 obtaining the data associated with the telephone number comprises
- 3 automatically requesting the data associated with the telephone number from a
- 4 remote server via the wireless network when the data connection is established.
- 1 31. A mobile communication device as recited in claim 25, wherein the obtained
- 2 data associated with the telephone number is contained in a vCard.
- 1 32. A mobile communication device as recited in claim 25, wherein the obtained
- 2 data associated with the telephone number comprises name or address
- 3 information associated with the telephone number.
- 1 33. A mobile communication device as recited in claim 25, wherein the obtained
- 2 data associated with the telephone number comprises ring tone data for use to
- 3 generate a ring tone indicating the incoming voice call.